Study Abroad and Exchange in Agriculture
Australia’s top university for agricultural science*

Study at The University of Queensland (UQ) for one or two semesters to gain a different perspective on your field of study. This flyer includes just some of UQ’s most popular agricultural science courses for Study Abroad and Exchange students. All of the listed courses are based at UQ Gatton – our rural campus located in one of Queensland’s largest agricultural areas, offering you access to specialised equipment, a comprehensive library, computer labs and the industry itself.

For an extensive list of available courses and more information about UQ’s Study Abroad and Exchange programs visit:

uq.edu.au/studyabroad

Key to icons:

- field trip
- technology focus
- hands-on practicals

Animal Behaviour, Handling & Wellbeing (ANIM1014)

Semester: Semester 1 (February start)
Course level: Year 1
Location: Gatton

Learn how to handle and manage companion, farm, recreational and wild animals ensuring the safety of humans and animals. Lectures and hands-on practicals will give you a good understanding of animal behaviour and of the relationship that they develop with us. This knowledge will in turn help you to understand and manage the problems associated with the handling, management and ownership of these animals in our society today.

Animal Reproduction (ANIM3019)

Semester: Semester 1 (February start)
Course level: Year 3
Location: Gatton
Prerequisite: A completed course in introductory reproductive theory and practice.

Gain advanced knowledge in animal reproductive biology across aquacultural species, amphibians, reptiles, birds and mammals. You will get hands-on experience in setting up an oestrus synchronisation protocol in the UQ Gatton goat herd, gamete recovery and cryopreservation, toad and chicken reproductive dissection, ram and bull breeding soundness examination, EJ and AV semen collection, and sperm morphology evaluation in the stallion.

*The 2017 QS World University Rankings by Subject ranked UQ #1 in Australia for Agriculture & Forestry and #19 globally.

CRICOS Provider Number 00025B
**The Soil Environment** (LAND2003)

Semester: Semester 1 (February start)  
Course level: Year 2  
Location: Gatton and St Lucia

Our soils are a vital resource; they play a key role not only in supplying water and nutrients to plants, but as an environmental buffer. This hand-on course provides you with an introduction to soil fertility and management, including the biology, physics and chemistry of soils. Learn to classify soils based on their composition, diagnose nutrient deficiencies in plants and develop strategies to overcome environmental degradation. You will have the opportunity to apply and refine your practical skills during field trips.

**Natural Resource Management** (ENVM3523)

Semester: Semester 1 (February start)  
Course level: Year 3  
Location: Gatton and St Lucia

Land and water use, biodiversity, forests and fisheries - these are just some of the natural resource management issues facing our planet. In this course you will learn about the complex web of inter-related ecological, economic and social factors at the root of these problems, and how they relate to management and policy issues at regional, national and global levels. You will develop advanced critical thinking and problem solving skills, as well as the ability to use conflict management and other social science approaches to tackle natural resource challenges.

**Weed Science** (PLNT3012)

Semester: Semester 1 (February start)  
Course level: Year 3  
Location: Gatton

For those seeking a career in the agricultural or horticultural industries this course will provide a comprehensive introduction to the science of weeds and their management. You will learn to identify a broad range of weeds and gain an understanding of the biological and the physiological processes that define them. The knowledge you gain in this course will enable you to identify limitations in weed management and determine possible solutions. A background in biology, particularly some knowledge of plants and their parts, would be helpful in understanding this course.

**Animal Breeding & Genetics** (ANIM3046)

Semester: Semester 1 (February start)  
Course level: Year 3  
Location: Gatton

Understanding the fundamentals of animal genetics and the application of genetic principles in animal breeding is key to a successful managed animal breeding program. This hands-on course covers a range of concepts including Mendelian inheritance, heterosis, heritability and natural selection. You will gain an understanding of the merits of various breeding programs, the pros and cons of genetic engineering, key ethical issues and how to develop your own breeding program. Basic maths skills would be helpful for completing this course.

**Ruminant Production Systems** (ANIM2054)

Semester: Semester 2 (July start)  
Course level: Year 2  
Location: Gatton

Study best practices used in the sustainable management and husbandry of dairy cattle, sheep and goats for the production of meat, milk, fibre, and skins. The knowledge you gain throughout this course will enable you to establish suitable production goals, analyse fluctuating supply and demand, and develop management plans for husbandry, nutrition, reproduction and health aspects, as well as solutions for animal welfare issues.

**Agronomy** (AGRC2040)

Semester: Semester 2 (July start)  
Course level: Year 2  
Location: Gatton

This course covers the fundamental principles of agronomy and crop production. You will explore cropping zones in Australia and a “ground up” approach to crop production. Learn about the importance of healthy soils in sustainable production, tillage, crop selection and rotations, the management of soil water and crop nutrition in rain-fed and irrigated farming systems, as well as the off-site impacts of agriculture. This course will provide you with a strong foundation in the key factors driving crop production in cropping and mixed farming businesses.